

LEarning and action alliances for NexuS EnvironmentS in an uncertain future

LENSES

WP1

D1.4 Data Management Plan (M19)

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Project partners











Project Website

















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LENSES Data Management Plan (DMP)

Introduction

According to the PRIMA regulation, a Data Management Plan (DMP) is a key element to make the research data collected, processed or generated by EC financed projects, accessible with as few restrictions as possible, while at the same time protecting sensitive data from inappropriate access and respecting Intellectual Property Rules.

It is part of the activity of WP1 — Project Management and aims at integrating other specific deliverables such as the project web-site or the Communication Plan to give to project activities all the framework needed for an efficient exploitation of actions, data, and results. Specific references are provided in dedicated Deliverables (D9.3 Project website, social media and serious game and D9.1 Dissemination and Communication strategy). A DMP describes the data management life cycle for the data to be collected, processed and/or generated by a research project. In order to make research data findable, accessible, interoperable and re-usable (FAIR), a DMP should include information on:

- the handling of research data during & after the end of the project;
- what data will be collected, processed and/or generated;
- which methodology & standards will be applied;
- whether data will be shared/made open access and
- how data will be curated & preserved (including after the end of the project).

The DMP of the LENSES project is developed based on the Horizon 2020 FAIR Data Management Plan (DMP) template, provided by the European Commission and recommended to be used but on voluntary basis.

The DMP allows the consortium, from the early stages of the project, to identify the related sets of data that will be collected/generated/utilized in the project lifetime. It includes: i) key data required for the provision of LENSES services, the output of model and auxiliary data from various sources as well as several other data to be collected and utilized throughout the project, such as socio-economics analysis (WP6); ii) data gathered through the stakeholder network analysis of the project aimed at revealing the needs and requirements of LENSES users and stakeholders (WP2); iii) data collected in the pilots areas of the project necessary for:

- the co-evaluation and validation of the services and business cases, etc. (WP8)
- modelling activities to define a wider Nexus picture of the different study areas, with particular attention to some 'hidden' interconnections (WP3-WP4 and WP6).

Particularly in the pilot areas of the project, specific data collection activities have been carried out and used to define the final list of information to be included in the Baseline description part of D8.1. A general list of the kind of data collected is reported as follows:

- a general characterization of each area,
- its major water, agricultural, energy, environmental and climate project(s),
- the policies relevant for all Nexus domains,









- its current land, water, energy, environment and climate governance,
- its current and emerging water sources and uses, land uses, major crops and farming systems,
- its challenges, its key stakeholders and their requirements,
- its current and emerging innovation demand,
- its technical and organizational infrastructure and
- knowledge and innovation capacities (including systems, advisory, and service providers) and its current and emerging innovation supply.

Data Summary

One of the main objectives of the LENSES project is to enhancing system understanding, gathering and structuring knowledge to unravel complexity and manage uncertainty in WEF systems, with their dynamic evolution. Coping with uncertainty and understanding "what are the intrinsic qualities that render a WEF system resilient?" is vital to building resilient Nexus systems, i.e. developing the capacity of Nexus systems to adapt quickly to changes and disruptions.

LENSES project envisions building resilient Nexus systems, through activating collective learning:

- that recognize and deal with uncertainty and change (e.g. climatic, social, technological, environmental);
- that can avoid technical lock-in by having the ability to change plan based on new evidence or circumstances, i.e. has adaptive capacity;
- whose WEF domains can accommodate disruption (e.g. due to water scarcity, socio-economic stresses, shocks);
- that are resourceful and use multi-functional solutions (e.g. via Nature Based Solutions (NBS));
- that can assess how actions in one area may affect the coordination of institutions and policies for resource management in another area (e.g. payments for ecosystem services).

Perhaps most critically, it envisions a Nexus which is bottom-up by engaging with all relevant communities and places offers a well-balanced distribution of the Nexus elements and services amongst the societal stakeholders, including the private sector, to promote sustainable market solutions and makes use of the assets each one has and addresses the current incapacity.

All data related to these actions, will be either free and open for the purpose of this project.

To study all the aspect of WEF Nexus, several data will be collected classified in main categories: agrienvironmental, socio-economic and policy data.

- Particularly for the socio-economics analysis, data collection is a crucial issues to obtain:
- Socio economic indicators and framework for Nexus relevant Natural Based Solutions (NBS);
- Policy indicators and framework for Nexus relevant NBS;
- Business and governance models framework for Nexus relevant NBS.

On the same time, data for the NEXUS tool also will be compiled to enable the socio-economics assessment (WP6). For each sustainability indicator, specific data is needed, and these will be gathered and compiled for the proper functioning of the NEXUS tool.









For the socio-economics analysis, the project will collect criteria to allow the pilots to assess the socio-economic benefits, costs, and risks associated with specific nexus-relevant NBS and integrated solutions. Besides considering the economic value of the ecosystem services, via adaptation of established evaluation systems, the number of (potential) beneficiaries/users, as well as (to the extent possible) their key features in demographic and socio-economic terms (age, gender, income...) will be mapped.

Reference will be made to approaches already available within existing initiatives and sets of indicators focused on ecosystem services (ESS), such as The Economics of Ecosystems and Biodiversity (TEEB) or the quantitative core and highlighted indicators of change in biodiversity and nature's contribution to people and quality of life defined by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). ESS classification defined by the Common International Classification of Ecosystem Services (CICES) will be considered as a reference.

The proposed framework will be completed by a methodology to identify a set of financing, investment and business models and assess their economic and governance sustainability on the long term. The framework will provide an extensive literature and search review on existing case studies and models as it is a quite innovative and unexplored field of work. Interviews and technical assistance from stakeholders working in the finance and investment sectors (BEI, Equity and investment Funds, Pension Funds, Green Bonds) will complement the research activity.

Regarding stakeholder network (WP2) analysis will be carried out in each pilot area through a sequence of three steps: i) identification of key actors for the main Nexus domains including different categories; ii) analysis of interests, aims and needs of these stakeholders in relation to the potential operationalization of LENSES approach; and iii) analysis of the LENSES stakeholder network in order to better understand the role of each actor into the network and how these roles affect the way the network performs. Building on this analysis, a stakeholder network engagement plan will be elaborate, supporting the creation and operation of Learning and Actions Alliances (LAAs). The design for each pilot LAA will be specified by: i) doing a preliminary selection of the domains of interest; ii) mapping the main actors and dissemination agents that ideally would take part in each pilot LAA; iii) allocating roles and responsibilities; and iv) identifying potential meeting formats, tools and methods to employ during the discussions.

For data collected during the pilots of the project (WP8) necessary for the co-evaluation and validation of the services and business cases, all pilots represent typical Mediterranean conditions, in terms of e.g. climate conditions and climate change impacts, interaction between surface water (SW) and groundwater (GW), potentially conflicting uses of the resources, relevance of agricultural activities, types of crops, social context and stakeholders. In all cases, a single-sector focus has generated Nexus challenges that are relevant to the call. The activities will be oriented to support a mutual-learning process in multi-actor stakeholder communities among the pilots, keeping alive specificities while producing generalizable &/or transferable findings. This will help identify existing gaps, assess the multi-dimensional implications of choices and policies and help exploring pathways to implementing specific e.g. NBS measures.

Fair Data









Making data findable, including provisions for metadata

All the descriptive and quantitative datasets archived for project WPs will be summarized with easily identifiable keywords and trackable version descriptions in a separate document. As part of every user action, we will produce meaningful metadata (time and date of data creation or data amendments). Quantitative data tables will be archived with metadata saved in text files. Metadata will assist the discoverability of the data and related information.

All data related to products and services derived from the different Work Packages will be publicly available through the website that is being implemented as part of the LENSES Dissemination and Communication Plan. It can include hyperlinks to repositories like DIAS (Data Integration and Analysis System) or the data services platforms that will host the services and products derived from the project. The results of data analysis will be made public via LENSES reports and any publications or conference presentations given by the Work Package team. LENSES DMP reports/publications will be made available online through the dedicated website created for this project. Concerning "raw survey" and interview data can be accessed (internally only) using Microsoft word and excel. The data will be deposited on the secure LENSES Cloud account. There are no foreseen restrictions.

A series of data, tables and figures will be produced to feed into the drafting of the business modelling and planning deliverables. Unique and persistent identifiers will not be used for this dataset. Keyword search will be based on typological terms. Versioning will follow the versioning approach defined by the project.

Making data openly accessible

Datasets will not be made publicly available for privacy reasons and to avoid disclosing relevant information. They will only be accessible through the LENSES Cloud to which only the members of the consortium will have access. Datasets will be updated when new data becomes available.

GA regulates that during implementation of the action and for four years, the parties must keep confidential any data, documents, or other material (in any form) that is identified as confidential at the time it is disclosed ('confidential information').

The raw data that identifies in users and survey respondents will not be made publicly available in accordance with article 36 of the GA. Raw data will be available to project partners although publishing from this needs to be in accordance with ethics requires. Contact lists for stakeholders and end-users will be used internally and not be available publicly. This agrees with Article 36 on confidentiality Data collected during interviews could be recorded and transcribed into Microsoft Word format. Data produced by surveys are original. All data will be de-identified for any publication and participants will remain anonymous — we will use identifier codes stating which stakeholder category the response is from, but this will not expose our participants.









Making data interoperable

We will use Open Geospatial Consortium (OGC) which makes possible the coherence, compatibility, and interoperability necessary so that the data, services and resources of the project can be used, combined and shared. In general, standard vocabularies for all data types will be used.

Increase data re-use

There is no licensing foreseen for any of the data thus allowing the widest possible re-use. Once the tool is operational, the data is available with no restrictions for its re-use by third parties.

Allocation of resources

All costs for making data FAIR in the LENSES project during the implementation phase are foreseen costs and are included in the budget of the project. No additional costs will be required for that purpose. After the end of the project, the data and the tool cannot be modified but will still be maintained by partners with costs that have been foreseen for them in the budget.

Data security

Partners of the WP interested will store the data in a cloud system that guarantees replication between regions, access patterns and with encryption features to ensure high security. They also will store personal data of stakeholders in an internal access management system with next generation firewalls, intrusion protection, artificial intelligence etc. for maximum security.

Ethical aspects

To carry out the interviews and/or surveys with external stakeholders, the partners will follow and apply all the foreseen provisions in the context of the ethics review, ethics section of DoA and project ethics deliverables. In particular, partners will employ those informed consent procedures that abide to the ethical standards and guidelines of PRIMA and in compliance with applicable international and national law. The anonymity and confidentiality of the participants, as well as their right to turn down or withdraw from the process at any point (i.e. volunteer participation), will be guaranteed and be made clear in written (consent form) as well as in oral form where possible. Any personal information will be handled according to the









principles laid out by the EU General Data Protection Regulation (GDPR; in force since 25 May 2016; it applies since 25 May 2018), while no sensitive personal data will be collected.

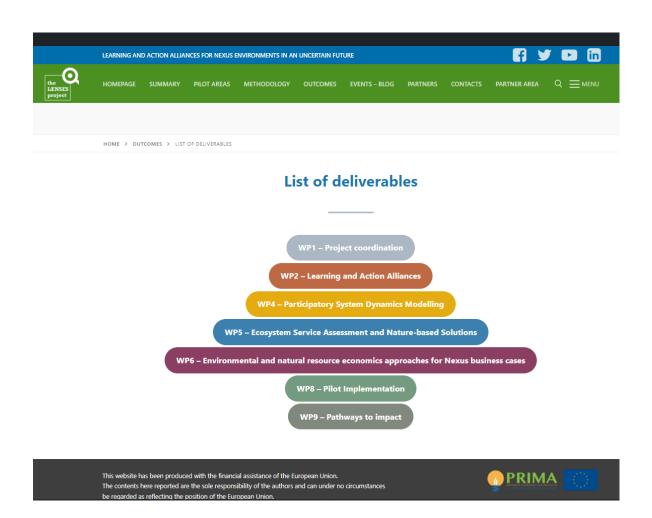
Main project achievements and data (first 18 months)

The first 18 months of the project have been very intense and full of activities and events necessary for the correct project implementation. We can summarize the main projects' outcomes looking at the i) deliverables realized, ii) the project website contents and to the activities done in the iii) pilot areas.

Concerning the last point, particularly relevant to the extent of this documents, the Catalogue of the Nature-Based Solutions (https://nbscatalogue.lenses-prima.eu/) and the Learning and Action Alliance Platform (http://www.lenseswindow.eu/), represent the main data repository available in LENSES so far.

Project deliverables

The deliverables realized in LENSES are catalogued according to their degree of confidentiality, the following documents are public available on project website.











WP 1 Project Management

- D1.3 Knowledge management strategy
- D1.4 Data Management Plan

Wp 2 Learning and Action Alliances

- D2.1 LENSES LAA Stakeholder engagement Guidelines
- D2.3 LENSES platform

WP 4 Participatory SDMs

- D4.1 Report on PSM and SNA Identification of DOs, NRQs and NIs_V3.6
- D4.2 Framework for PSDM implementation in LENSES case studies

WP 5 ESS & NBS

- D5.1 Report on the review of existing frameworks
- D5.2 Roadmap to navigate the available catalogues of Nature-based Solutions and finalised list of candidate NBS
- D5.3 Module for decision support on Nexus-related technical effectiveness of NBS

WP 6 Nexus business cases

- D6.1 Socio-economic indicators and framework for Nexus-relevant NBS
- D6.2 Policy indicators and framework for Nexusrelevant NBS

WP 8 Implementation in Pilot Cases

- D8.2 LENSES pilots data generation_v4_2022_10_24_final
- D8.5_LENSES synthesis products_first version

WP 9 Pathways to Impact

- D9.1_Communication-and-dissemination-strategy_draft
- D9.2_Visual-identity-and-project-identity-material-Final
- D9.3 Project website social media and Serious game
- D9.6 LENSES Stories. First Version

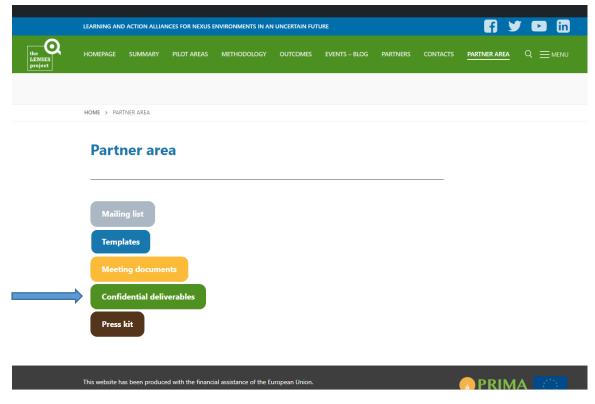
Other deliverables, considered reserved, are available only for registered users in the internal partner area.











WP 1 Project Management

- D1.1 Project_management_handbook_30.06
- D1.2 Innovation Strategy

WP 7 Nexus operationalization for SDG delivery

- D7.1 Data_Integration_and_Visualisation_strategy_a...
- D7.2 Climate projections and risk assessment LENSES v2.0
- D7.3_LENSES_Land-use suitability mapping tool_First Version

WP 8 Implementation in Pilot Cases

• D 8.1 Baseline description

WP 9 Pathways to Impact

- D9.4 LENSES Exploitation and Sustainability Plan final
- D9.6 LENSES Stories
- D9.7_LENSES_Business Plan Draft version_28.10.2022

Project website contents and social media

A dedicated project website (http://www.lenses-prima.eu) has been developed and updated regularly with news and content in line with the development and events of the project. Together with the use of social networks, constitutes the main tool for disseminating information about the project, thanks to the responsible and friendly layout can be viewed correctly on the main and common devices.









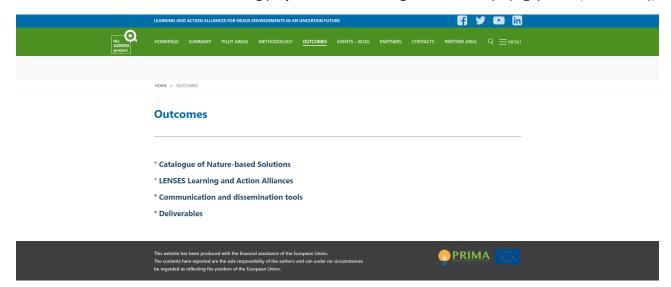
The website is characterized by a clear and accessible structure consistent with the LENSES visual identity. It is available only in English, with simple language and clear messages that can be understood by a wide target audience. It is also in line with all the elements necessary to comply with the general rules for C&D "Communication and Dissemination" activities of projects financed under the PRIMA Foundation programme.

The top navigation bar includes the project title "LEARNING AND ACTION ALLIANANCES FOR NEXUS ENVIRONMENTS IN AN UNCERTAIN FUTURE" and the links to the main social channels of LENSES (Facebook, Twitter, YouTube, LinkedIn).

The navigation bar includes: the project logo, the search function and the site menu which gives access to nine main web sections: Home; Summary; Pilot areas; Methodology; Outcomes; Events-Blog; Partners; Contacts and Partner area. The last menu section is an extranet area that is accessible only after a user registration.

Below is a brief description for each section of the website menu with a focus on the core sections:

- "Summary", provides an overview of the project, including objectives, actors and geography, and expected results;
- "Pilot areas", gives access to the LENSES map that show whole the Mediterranean area where each pilot area is located. From here you can access various subsections dedicated to the 7 pilot areas. The web page dedicated to each pilot area includes the logo of the institution responsible for the pilot area and the link to the partner institution's web page within the LENSES website. There is also a section with all the "Documents related to the pilot", which includes the fact sheet of the pilot area and other products dedicated to C&D developed within the project activities;
- "Methodology", gives a general description of the key approaches of LENSES and specific information on the context (e.g. challenges) that will guide their innovative application at local level;
- "Outcomes" of the project as extensively described above is of particular interest. In fact, it includes the links to the Learning and Action Alliances (LAAs) and the Catalogue for Nature Based Solutions. Also, there are other two links for the repository of public deliverables and the repository of common communication and dissemination tools to be used during project-related meetings and workshops (e.g. posters, brochures);











- "Events-Blog", contains details and links on past and future events developed both within and outside the project and focusing on LENSES related topics. All the information of the blog are updated frequently with the purpose of maintains communication with the stakeholder on what's going on, let them know about news and achieved results;
- "Partner" section gives access to various webpages, each of it dedicated to one of the thirteen partner institutions. Each webpage dedicated to partner institution includes: the logo and the link to the homepage of the website of the partner institution.

With over half of the world's population using social media, platforms like Facebook, Instagram or Twitter and many others are natural place to communicate and share information. The aim is to transfer the LENSES knowledge to the general public and to raise the interest of a non-specialized audience toward LENSES-related topics.

We have activated new profiles as mentioned above on the following social:

- **Facebook** page entitled "The LENSES Project" is available at this link. Facebook assures a wide visibility useful to reach the project C&D aim.
- LinkedIn account entitled "LENSES Prima" was created and is available at this link. The LinkedIn profile page of LENSES includes an overview on the project and a link to the project website. In the same way as on Facebook we have shared all videos produced "Lenses Nexus Stories" from the Youtube account and blog articles published on Lenses web site.
- YouTube account entitled "The LENSES Project" was created and is available at this link. It is a video gallery that includes all short videos of Nexus Stories "Story as a driver of change" edited by all pilot areas.
- **Twitter** account entitled "The LENSES Project" was created and is available at this link. With this channel we shared the project news in pills using short an easy post.

Pilot areas

Nature-Based Solutions Catalogue

How does the Catalogue of NBS help LENSES?

The tool helps you find nature-based solutions for nature-based challenges! It allows the identification of appropriate NBS and provides you with the right Key Performance Indicators (KPIs) to assess their technical effectiveness. Users are able to explore a list of available NBS and have access to guidelines for the development of a business model in order to make selected NBS more sustainable.

In each pilot area of the project, a framework for development of NBS solutions has been conducted (as presented in D 5.1 and D 5.2 and included in an online catalogue available on project website.

Below the steps for NBS catalogue consultation are briefly presented:

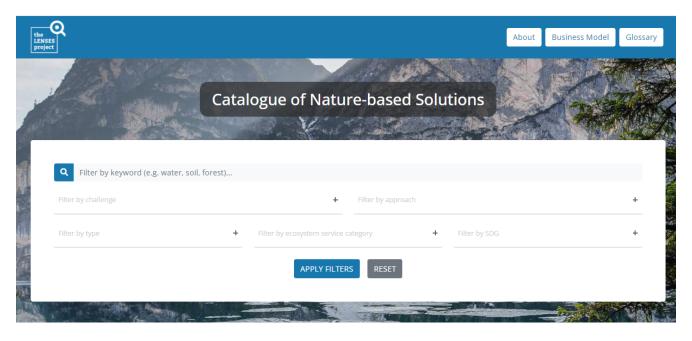
Step 1. Filter NBS for keyword











Applying specific filters by approach, challenge, type or ecosystem service category or SDG users can easily identify the NBS needed.

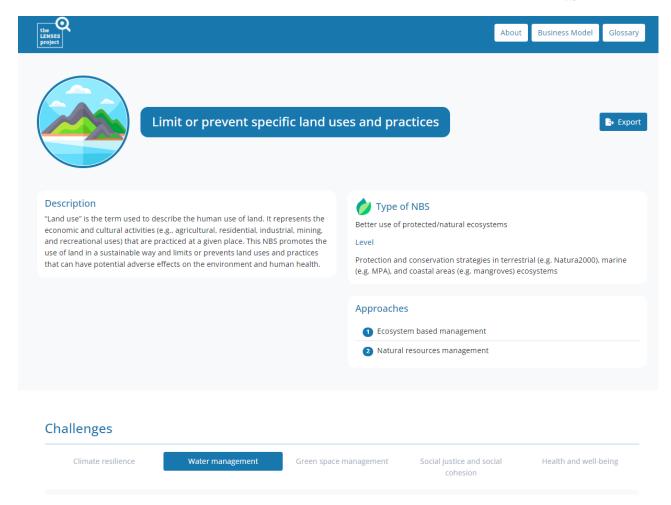
Step 2. Description and framework











Each NBS is presented with a short description, and all the correlated features, such as analytical approach, territorial level.

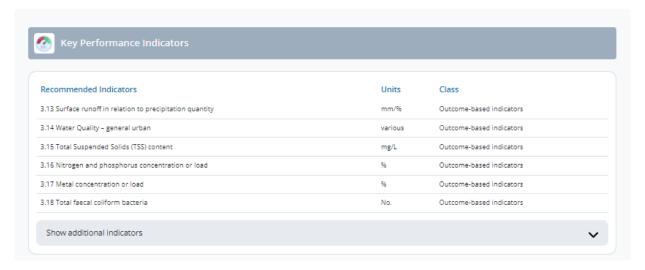
Step 3. Find related KPI, SDGs and Ecosystem services













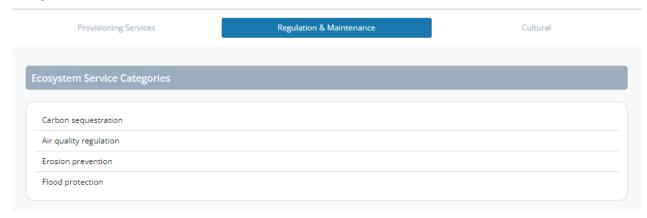






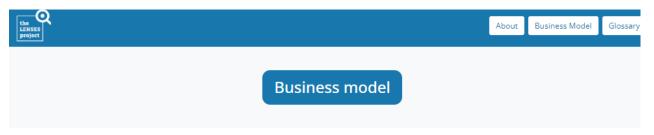


Ecosystem Services



In the third steps a detailed description of linked KPI and SDGs as well as specific environmental challenge and connected ecosystem services. Finally, for each NBS an economic analysis is also performed producing a dedicated business model.

Step 4. Business model



With this practical methodology, we aim to help practitioners in various sectors and positions to develop business models for Nature-Based Solutions (NBS) projects that the want to promote to address challenges related to the Water-Energy-Food Nexus.

The business model's development helps identify various elements to make possible the implementation of the solution; ranging from defining the necessary resources, the critical partners to collaborate with, the governance arrangements to maintain the solution, and the solution's cost structure up to a point to identify possible financing sources.

The Business Model Canvas proposed to apply in the context of the LENSES project follows the original Business Model Canvas by Osterwalder and Pigneur, with novel adaptations specifically to fit the case of NBS options provided by the Connecting Nature and the NAIAD projects.

The development of NBS business models consists of 3 phases



The proposed approach considers an huge amount of data collected in all LENSES' pilot sites and made available for free consultation in accordance with project Data Management rules. The full list of NBS is attached in Annex 1 of D 5.2.









Learning and Action Alliances platform

The LENSES Learning and Action Alliances (LAAs) aim to promote cooperation and collective learning processes among stakeholders through a multi-level and multi-scale participatory approach, to helping in a fair distribution of resources.

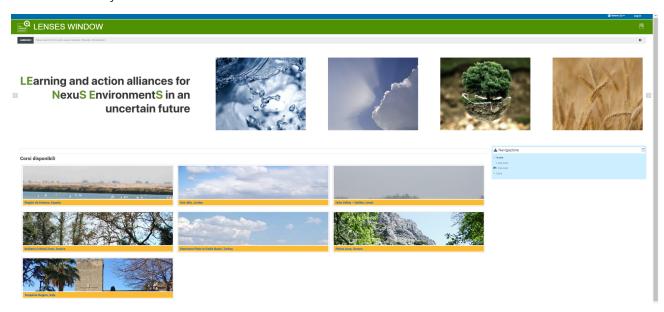
The real challenge of a multi-stakeholder engagement process is to establish the connections, interest and tools to enable the creation of an interaction that becomes self-standing and outlives the project.

In order to achieve this, LENSES LAAs will integrate discussion and knowledge sharing activities with a structured visioning process concluding in the elaboration of transition roadmaps for the management and operationalization of the WEF Nexus.

This is an innovative approach that will be strengthened through mutual learning across case study LAAs and disseminated via the trans-project LAAs.

The LAAs aim to fulfil this role by providing a virtual and safe space for dialogue with all relevant stakeholders that can be taken up by the stakeholders themselves to establish a governance model for implementation and monitoring of the designed roadmaps, i.e. enhancing institutional and governance capacity for Nexus-doing.

LENSES LAAs Platform



By opening the relevant pilot area, a set of specific data will be available for consultation by the users. The design of the LAA platform has been finalized in close collaboration with the pilot leaders and key local stakeholders, based on an initial sketch for the Pilot LAA pages to guide discussion (see figure below).











As presented in D 2.3, the core part of the platform will be the Pilot sections, where the following sub-sections have been included:

- What is new?
- Repository
- Learn more about LENSES
- Advances in the pilot
- Sharing experiences.

What is new? This will be a dashboard where visitors can get: - updated information on the next planned activities (e.g. dates, agenda, calendar tool) - overall information of the action of the local LAA, e.g. past activities, aims and work plan - access to the newsletters (before each activity, a newsletter will be circulated as a reminder and briefing to the stakeholders incolved in the LAA)

Repository. In this area, we will include more specific information about the core participatory activities conducted in each pilot (e.g. main workshops on problem framing, visioning and model validation). For each of these core activities, a specific 'course' will be open. This will allow us to organize the information produced and gained insights in an attractive manner. Also, the platform will enable to send out surveys (e.g. satisfaction surveys or follow-up surveys) and to collect specific feedback through a standardised tool.

Learn more about LENSES. This area will be closely connected to the LENSES main website, providing information of the project aims, structure and latest advances. We will add some tools to promote a participatory approach to the project, e.g. quizzes and surveys, and will add some links to project activities aligned with this goal (e.g. LENSES serious game). Our idea is to build bridges between the project website and the LAA platform to facilitate that different users can easily move from one to another to find the information they may be interested in.









Advances in the pilot. In this area, we will be publishing some 'lessons' describing the methods being applied in the pilot and the produced outputs and outcomes. These lessons will be written in an easy language with a focus on shedding light on how these results can support shared and sustainable management of WEF aspects while increasing resilience of the local socio-economic systems. These lessons shall contribute to the legacy of the platform. A strong focus will be set on explaining how the integration of different types of knowledge (e.g. practical and scientific knowledge, sectoral knowledge) is contributing to reach the goals of LENSES.

Sharing experiences. After agreeing with the pilot leaders on the preferred options for regularly reporting and updating to the local stakeholders about the work being done in the pilot (e.g. newsletter, forum, mailing list), we will add some specific functions into this section that can help to better manage this internal communication and interaction among LAA members.

Again a important set of data is included in the platform, making it a core tool to facilitate the regular interaction of the stakeholders involved in the three-level LAAs, as well as to help that other stakeholders can incorporate into the discussions and activities with an adequate knowledge base of the interactions previously occurred. Legal issues and data protection will be duly considered: "Terms of use", "Privacy policy" and "Cookies policy" has been implemented on the online platform.









References

LENSES Grant Agreement

LENSES Consortium Agreement between the CREA and the LENSES partners

H2020 Programme Guidelines on FAIR Data Management in Horizon 2020

D5.1 Report on the review of existing frameworks

D5.2 Roadmap to navigate the available catalogues of Nature-based Solutions and finalised list of candidate NBS

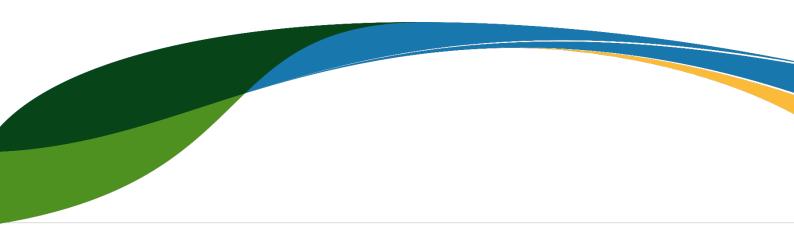
D2.3 LENSES learning platform (initial design)











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